

SEQUENCE LISTING

<110> Shaughnessy, S.
Austin, R.

<120> OSTEOPOROSIS TREATMENT

<130> MDSP-P02-180

<140> 09/491,982

<141> 2000-01-27

<150> 09/314,152

<151> 1999-05-19

<160> 11

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1

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Pro	His	Phe	Leu
			20

<210> 2

<211> 20

<212> PRT

<213> Homo sapiens

<400> 2

Thr	Tyr	Pro	Ala	Ser	Trp	Pro	Cys	Gln	Pro	His	Phe	Leu	Leu	Lys	Phe
1				5					10					15	

Arg	Leu	Gln	Tyr
			20

<210> 3

<211> 1140

<212> DNA

<213> Mus musculus

<400> 3

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ggcaggcccg	tgatgctgtg	ctgccccgga	gtgagtgtg	ggactccagt	gtcctgggtt	180
cgggatggag	attcaaggct	gtccaggga	cctgactctg	ggtaggaca	caaactgggtc	240
ttggcccagg	tggacagccc	tgatgaaggc	acttatgtct	gccagaccct	ggatgggtgta	300
tcagggggca	tggtgaccct	gaagctgggc	tttccccag	cacgtcctga	agtctcctgc	360

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caagcggtag actatgaaaa cttctcctgt acttggagtc caggccaggt cagcggtttg 420
cccacccgct accttacttc ctacaggaag aagacgctgc caggagctga gaggcagagg 480
gaaagtccat ccaccgggccc ttggccgtgt ccacaggacc ctctggaggc ctcccgatgt 540
gtgggtccatg gggcagagtt ctggagtgag taccggatca atgtgaccga ggtgaacca 600
ctgggtgccca gcacgtgcct actggatgtg agattacaga gcaccttgcg tcctgatcca 660
ccccaaggac tgcgggtgga atccgtacct agttaccgca gacgcctgca tgccagctgg 720
acataccctg cctcctggcg tcgccaaccc cactttctgc tcaagtccg gttgcaatac 780
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caggatgaga tacctgattg gagccaggga cacggacagc agctagaggc agtagtagct 1020
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<210> 4
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<212> PRT
<213> Homo sapiens

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<210> 5
<211> 7
<212> PRT
<213> Homo sapiens

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<400> 5
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<210> 6
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<212> PRT
<213> Homo sapiens

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<400> 6
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Pro Gly Tyr Pro
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<210> 7
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<213> Artificial Sequence

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<220>
<221> SITE
<222> (4)
<223> Xaa=basic amino acid

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<220>

<223> Description of Artificial Sequence: IL-11 binding
peptide

<400> 7

Arg Arg Leu Xaa Ala Ser Trp
1 5

<210> 8

<211> 20

<212> PRT

<213> Mus musculus

<400> 8

Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val
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Pro Ser Tyr Pro
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<210> 9

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<221> SITE

<222> (18)..(20)

<223> Xaa=suitable amino acid

<220>

<223> Description of Artificial Sequence: IL-11 binding
peptide

<400> 9

Ser Ile Leu Arg Pro Asp Pro Pro Gln Gly Leu Arg Val Glu Ser Val
1 5 10 15

Pro Xaa Xaa Xaa Tyr Pro
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<210> 10

<211> 7

<212> PRT

<213> Mus musculus

<400> 10

Arg Arg Leu His Ala Ser Trp
1 5

<210> 11

<211> 422

<212> PRT

<213> Homo sapiens

<400> 11

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Thr	Ala	Leu	Val	Ser	Ala	Ser	Ser	Pro	Cys	Pro	Gln	Ala	Trp	Gly	Pro	
			20					25					30			
Pro	Gly	Val	Gln	Tyr	Gly	Gln	Pro	Gly	Arg	Ser	Val	Lys	Leu	Cys	Cys	
		35					40					45				
Pro	Gly	Val	Thr	Ala	Gly	Asp	Pro	Val	Ser	Trp	Phe	Arg	Asp	Gly	Glu	
	50					55					60					
Pro	Lys	Leu	Leu	Gln	Gly	Pro	Asp	Ser	Gly	Leu	Gly	His	Glu	Leu	Val	
65					70					75					80	
Leu	Ala	Gln	Ala	Asp	Ser	Thr	Asp	Glu	Gly	Thr	Tyr	Ile	Cys	Gln	Thr	
				85					90					95		
Leu	Asp	Gly	Ala	Leu	Gly	Gly	Thr	Val	Thr	Leu	Gln	Leu	Gly	Tyr	Pro	
		100						105					110			
Pro	Ala	Arg	Pro	Val	Val	Ser	Cys	Gln	Ala	Ala	Asp	Tyr	Glu	Asn	Phe	
		115					120					125				
Ser	Cys	Thr	Trp	Ser	Pro	Ser	Gln	Ile	Ser	Gly	Leu	Pro	Thr	Arg	Tyr	
	130					135					140					
Leu	Thr	Ser	Tyr	Arg	Lys	Lys	Thr	Val	Leu	Gly	Ala	Asp	Ser	Gln	Arg	
145					150					155					160	
Arg	Ser	Pro	Ser	Thr	Gly	Pro	Trp	Pro	Cys	Pro	Gln	Asp	Pro	Leu	Gly	
				165					170					175		
Ala	Ala	Arg	Cys	Val	Val	His	Gly	Ala	Glu	Phe	Trp	Ser	Gln	Tyr	Arg	
			180					185					190			
Ile	Asn	Val	Thr	Glu	Val	Asn	Pro	Leu	Gly	Ala	Ser	Thr	Arg	Leu	Leu	
	195						200					205				
Asp	Val	Ser	Leu	Gln	Ser	Ile	Leu	Arg	Pro	Asp	Pro	Pro	Gln	Gly	Leu	
	210					215					220					
Arg	Val	Glu	Ser	Val	Pro	Gly	Tyr	Pro	Arg	Arg	Leu	Arg	Ala	Ser	Trp	
225					230					235					240	
Thr	Tyr	Pro	Ala	Ser	Trp	Pro	Cys	Gln	Pro	His	Phe	Leu	Leu	Lys	Phe	
				245					250					255		
Arg	Leu	Gln	Tyr	Arg	Pro	Ala	Gln	His	Pro	Ala	Trp	Ser	Thr	Val	Glu	
			260					265					270			
Pro	Ala	Gly	Leu	Glu	Glu	Val	Ile	Thr	Asp	Ala	Val	Ala	Gly	Leu	Pro	
		275					280					285				

His Ala Val Arg Val Ser Ala Arg Asp Phe Leu Asp Ala Gly Thr Trp
290 295 300

Ser Thr Trp Ser Pro Glu Ala Trp Gly Thr Pro Ser Thr Gly Thr Ile
305 310 315 320

Pro Lys Glu Ile Pro Ala Trp Gly Gln Leu His Thr Gln Pro Glu Val
325 330 335

Glu Pro Gln Val Asp Ser Pro Ala Pro Pro Arg Pro Ser Leu Gln Pro
340 345 350

His Pro Arg Leu Leu Asp His Arg Asp Ser Val Glu Gln Val Ala Val
355 360 365

Leu Ala Ser Leu Gly Ile Leu Ser Phe Leu Gly Leu Val Ala Gly Ala
370 375 380

Leu Ala Leu Gly Leu Trp Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly
385 390 395 400

Ser Pro Lys Pro Gly Phe Leu Ala Ser Val Ile Pro Val Asp Arg Arg
405 410 415

Pro Gly Ala Pro Asn Leu
420

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